Specialist - Implementation Engineer, PowerEdge MX Modular Version 1.0
Certification Description

Certification Overview
This certification validates the ability to perform intermediate skill level tasks in configuring, installing, managing, upgrading and troubleshooting Dell EMC PowerEdge MX server products.

Certification Requirements
To complete the requirements for this certification you must:

1. Achieve one of the following Associate level certifications*
   - Associate - PowerEdge Version 1.0
   - Associate - PowerEdge Version 2.0
   - Dell Certified Associate – PowerEdge
   - Dell Certified Professional – PowerEdge
   - Specialist – Implementation Engineer, PowerEdge Version 1.0
   - CompTIA Server+

2. Pass the following Implementation Exam
   - DES-4421 Specialist - Implementation Engineer, PowerEdge MX Modular Exam

Note: These details reflect certification requirements as of October 29, 2021.

*The Proven Professional Program periodically updates certification requirements. Please check the Proven Professional CertTracker website regularly for the latest information and for other options to meet the Associate level requirement.
Overview
This exam is a qualifying exam for the Specialist - Implementation Engineer, PowerEdge MX Modular track.

This exam focuses on installing, implementing, administering and troubleshooting the Dell EMC PowerEdge MX server products.

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

Products
Products likely to be referred to on this exam include but are not limited to:

- PowerEdge MX Platform Server Components
- PowerEdge MX Platform Networking Components
- OpenManage Enterprise Modular (OME-E)
- iDRAC9 and Lifecycle Controller

Exam Topics
Topics likely to be covered on this exam include:

**MX-Series Portfolio Overview (14%)**
- Describe MX7000 hardware chassis components and numbering schemes
- Describe MX7000 compute and storage sled components
- Describe MX5016s storage sleds and configurations
- Describe MX750c compute sled (15G) and features

**MX7000 Administration (38%)**
- Describe the MX Chassis Management Architecture and multi-chassis management groups
- List and describe key features of OME-M that supports management of the MX7000 chassis
- Describe storage sled management, Fabric C, mapping drives, and drive/enclosure assigned configuration
- Describe use of slot profiles, daisy chains, simplification, and consolidation, logs, and the iDRAC Service Module
- Describe how to perform firmware updates
- Describe use of key features of iDRAC, touching on considerations specific to MX Modular, including resetting iDRAC
- Describe the Lifecycle Controller and the main features
• Describe the Telemetry Advance License, OpenID Connect, Left Control Panel, (LCD) PIN management, Right Control Panel Field Replacement Auto-configuration and Proof of possession features in OME-M

**MX7000 Installation (17%)**
- Describe the infrastructure and out-of-the-box setup on an MX7000
- Describe the initialization installation power-on
- Describe the concepts for initial chassis configuration using the Chassis Deployment Wizard
- Describe use of compute sleds, including location

**MX7000 Implementation (17%)**
- List and describe hardware requirements of the various MX7000 network configurations
- Describe the fabrics and types of implementation used by the MX7000 switches
- Describe the Switch Operating Modes in MX7000
- Describe Fabrics in Chassis Management Groups and Chassis backup lead
- List and describe initial switch setup requirements
- Describe the SmartFabric Architecture and deployment process
- Describe the VLAN Scale and L2 multicast Operation

**MX7000 Troubleshooting (17%)**
- Describe minimum POST configuration, OME-M alerts and logs, OME-M health stats messages, LCD alerts and troubleshooting and RCP Auto-config Restoration
- Describe troubleshooting the MX7000 hardware, network issues, iDRAC and Lifecycle Controller

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.
Recommended Training
The following curriculum is recommended for candidates preparing to take this exam.

Dell Technologies Employee, Partner and Customer audiences:
Please complete one of the following courses

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<th>Course Title</th>
<th>Course Number</th>
<th>Mode</th>
<th>Available</th>
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<td>Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration</td>
<td>ES181SVR00151</td>
<td>Virtual Instructor-Led</td>
<td>10/4/21</td>
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<td>Dell EMC PowerEdge MX Modular Platform Installation, Implementation and Administration (On Demand)</td>
<td>ES182SVR00518</td>
<td>On Demand</td>
<td>9/27/21</td>
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Note: These exam description details reflect contents as of October 29, 2021.

The Proven Professional Program periodically updates exams to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

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